

BREYDO, M. G. and KOBRINSKIY, A. Ye.
(Institute of Machinery)

"Work carried out with a modernized model of a milling machine."

Programmed Control of Metal Cutting Machines. report presented at
All-Union Conference, Moscow, 13-16 Nov 1957.
Vestnik Ak. Nauk SSSR, 1958, No. 2. pp. 113-115, (author Kobrinskiy, A. Ye.)

AUTHORS: Breydo. M.^G, Engineer, Gurfinkel', V., Physician 29-4-2/20

TITLE: Machine is Controlled by Thought (Mashinoy upravlyayet mysl')

PERIODICAL: Tekhnika Molodezhi, 1958, Nr 4, pp. 3-4 (USSR)

ABSTRACT: A curious device can be seen in the Soviet pavilion at the world exhibition in Brussels. It is an artificial hand with a bracelet fixed to a cable. A man who puts this bracelet round his wrist, is able to make this hand a balled fist and to make it carry out other small grasps too. Only by this thoughts this miracle was constructed for the first time in the Central Institute for Scientific Researches for Artificial Limbs in Moscow, in 1957. Then, only the direction and the speed of the finger-movements could be influenced by one's thoughts. The exposed model is substantially refined. Numerous inventions in the most various fields of science by the Soviet specialists A. Ye. Kobrinskiy, A. Ya. Sysin, M. L. Tseytlin, Ya. S. Yakobson and by the authors of this article were applied for its manufacture. The mechanism is based on the principle of changes of the electric potential, the so-called bio-current in the human organism. A so-called "mechanical hand" for manipulating with insanitary, especially with radioactive substances was

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exposed at the All Union Industrial Exhibition at the time. Instruments reacting more accurately and finer than the "mechanical hand" could be made by means of a bioelectrically controlled manipulator. Due to the fact that the amplified bio-current can also be conducted per wire and radio, men would be able to effect operations at a distance of thousands of kilometers without moving from the desk in their office. Such "bio-current-hands" would be able e.g. to equip bathispheres sunk to great depths astronomical craft, atomic laboratories and many other things. The application of bioelectrical systems is of greatest interest with artificial limbs. The manufacture of a bioelectrical artificial hand is in progress at present. The application of such artificial limbs with men with amputated arms and legs would be equally promising. The application of bioelectric control for medical purposes is very prospective. A gymnastic apparatus which is self-controlled by the patient, as well as a respirator could be used in the case of polyomelitis. The self-controlled respirator would be of special importance since its use would cause the respiration of the patient to become active which accelerates the functions lost by the nervous cells. The biocurrent of the respiratory muscle could also serve for controlling the respiratory

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apparatus with diving. The application of bio-current is also tempting in the complex control of machinery. It could be imagined that a pilot makes his aircraft effect the most complicated changes of position only by his reasoning. The advantage of such a control consists in that a more rapid and more accurate reaction is achieved, since the decelerating muscel-reaction is avoided. There are 2 figures.

AVAILABLE: Library of Congress

1. Artificial limbs-USSR
2. Exhibitions-Brussels-USSR
3. Biotechnology-USSR
4. Scientific research-USSR

Card 3/3

BREYDO, M.G., KOBRINSKIY, A.Ye.; BESSTRASHNOV, V.K.

Designing programmed control systems for milling machines. Trudy
Inst. mash. Sem. po teor.mash. 17 no.68:29-39 '58. (MIRA 11:7)
(Milling machines--Numerical control)

Brey Do, M.C.

9(5) PHASE I DATA EXPLOITATION SOV/3176

Problemy kibernetiki, vyp. 2 (Problems of Cybernetics, No. 2) Moscow, Fizmatgiz, 1959. 323 p. Errata slip inserted. 18,000 copies printed.

Ed.: A. A. Lyapunov; Compilers-Editors: O. B. Lupanov, B. Yu. Fil'chat, S. V. Yablonskiy, and Yu. I. Yanov; Eds.: A. A. Konoplyankin, and M. L. Spolyanskiy; Tech. Ed.: S. M. Achlamov.

PURPOSE: The purpose of this collection of articles is to organize scientific papers on cybernetics and to unite the efforts and interests of Soviet scientists working in this field.

COVERAGES: This is the second volume of "Problemy kibernetiki", dealing with problems of biology, mathematics and engineering as they relate to cybernetics. The first volume, which appeared in 1958, considered problems of programming, machine translation and computer design. Future volumes propose to include a greater number of subjects related to cybernetics. The editors list 5 recent Soviet books (including 12 translations) dealing with cybernetics. They thank the following persons for their help in preparing the book for publication: O. V. Yakulovskaya, Z. I. Savitskaya, A. Muchnik, B. I. Minikov, M. L. Tseltin and V. S. Shusterman. References follow each article.

PART IV. CONTROL SYSTEMS AND COMPUTERS

Myshlin, A.M., and V.K. Saitov (Moscow). Operational Cathode-ray Tube Storage Device 191
The authors describe the principle of operation of the storage device for the Soviet computer "Elektron", which consists of cathode-ray tubes of the "Elektron" type, with a storage capacity of 2048 words of 13 bits. No references are given.

Byrdov, M.D., V.S. Gurtinkel', A.Ye. Kobrinskiy, A.Ya. Sytin, M.L. Tseltin, and Ya.S. Yakobson (Moscow). On the Biotelegraphic System of Control 203
The article deals with the utilization of biological myoelectric currents in the operation of technical devices. It also describes the principles of operation and design of a servo-drive built for this purpose. There are 12 references. 5 Soviet (1 translation), 2 German and 5 English.

PART V. CONTROL PROCESSES IN LIVING ORGANISMS

Zimofeyev, Reznovskiy, M.V. (Sverdlovsk) and K.R. Razaev (Berlin). On Staticity and Amplifier Principle in Biology 213
The article concerns problems of circulation of hereditary information from generation to generation and the physical process of its biological storage in living organisms. The authors summarize investigations in that field. There are 52 references, 16 Soviet (5 translations), 18 English, 14 German, and 4 French.

Krushinskiy, I.V. (Moscow). Investigation of Extrapolative Reflexes in Animals 229
The article deals with the physiology of the activity of the nervous system in animals. The article according to the editors is of great interest for the study of cybernetics since it concerns relations between biology, engineering and mathematics in the investigation of control processes occurring in living organisms. There are 11 references: 9 Soviet (2 translations), and 2 English.

PART VI. PROBLEMS OF MATHEMATICAL LINGUISTICS

Kulagina, O.S., and O.V. Yakulovskaya (Moscow). Experimental Translations from French into Russian on the "Strela" Computer 283
The authors describe algorithms for the machine translation of mathematical texts from French into Russian were developed by O.S. Kulagina and I.A. Melichuk. These algorithms assume the existence of a special vocabulary which contains not words but stems. The authors give examples of translations obtained and methods used in eliminating errors. No references are given.

Kulagina, O.S. (Moscow). Operational Description of Translation Algorithms and Automating the Process of Their Programming 289
Mathematicians of the Soviet Union have developed a programming technique of operational programming based on an external notation that is written linearly across the page, word by word. The programming was tested on translations from French into Russian. The author describes the first steps in the development of the following types of operators are used: condition, resulting and neutral (finish, pause, etc.). The author explains the method of compiling a program. There are 10 references. No

KOBRINSKIY, A.Ye.; BREYDO, M.G.; GURFINKEL', V.S.; POLYAN, Ye.P.;
SLAVUTSKIY, Ya.L.; SYSIN, A.Ya.; TSEITLIN, M.L.; YAKOBSON, Ya.S.

Research on the development of bioelectric control systems.

Trudy Inst.mash.Sem.po teor.mash. 20 no.77:39-50 '59.
(MIRA 13:4)

(Electrophysiology)

BREYDO, M.I.

GRAMMAKOV, A.G.; ORLOV, V.M.; BREYDO, M.I.

Optical and acoustic signaling instruments used for the detection of
static electricity. Priberostreenie no.2:19-20 F '57. (MLRA 10:4)
(Electrostatics--Measurement)

AL'PEROVICH, Yu.I.; GUTCHIN, I.B.; KAYEYSHEVA, L.S.; TEPLOV, L.P.;
BOGDANOV, G.G.; DROBYSHEV, Yu.G.; SMIRNOV, G.V.;
TRET'YAKOV, V.S.; BREYDO, M.I.; YEVSEYEV, L.A.; STEBAKOV,
S.A.; FEDCHENKO, V., red.

[The ABC's of automation; collected articles] Azbuka avto-
matiki; sbornik. Moskva, Molodaia gvardiia, 1964. 349 p.
(MIRA 17:7)

I 10289-67 EWT(d)/EMP(v)/EMP(k)/EMP(h)/EMP(l) IJP(c) BB/GG/GD
ACC NR: AT6031184 (A) SOURCE CODE: UR/0000/66/000/000/0122/0135

AUTHOR: Breydo, M. I.

ORG: None

TITLE: A simplified self-teaching system

SOURCE: Teoriya mashin-avtomatov i pnevmo-gidroprivodov (Theory of automatic machinery and pneumatic and hydraulic drives); sbornik statey. Moscow, Izd-vo Mashinostroyeniye, 1966, 122-135

TOPIC TAGS: learning mechanism, self adaptive control, optimal control

ABSTRACT: The author discusses the basic principles of adaptive control processes and proposes an automatic control system capable of "learning" from experience how to correct its own errors. The system incorporates information on a set of fixed situations (combinations of parameters) including a set of special control programs which are individual answers corresponding to each particular situation. The current situation (i. e. the instantaneous combination of parameters in the technological process) is evaluated and the particular program corresponding to this situation is automatically selected. The answer-programs are improved by selecting the best fixed programs for each situation (optimization process). The given system is called a finite or cyclic self-teaching system since any increase in the supply of questions and answers cannot

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ACC NR: AT6031184

be a continuous process. This type of system may be used for automation of machine control, monitoring a technological process, increasing the operational speed, reliability and production quality of machines and for studying machines and technological processes. The system is also useful for solving technological problems which cannot be solved by other methods. However, it should be pointed out that a cyclic system may be used only where the number of parameters characterizing the technological system and the number of values taken on by these parameters are relatively small. A diagram is given showing the proposed cyclic adaptive system and the sequence of the self-teaching process is described. Orig. art. has: 4 figures, 2 tables, 7 formulas.

SUB CODE: 09/ SUBM DATE: 12Jan66

Card 2/2 ⁵⁷⁷

BREYDO, N.

"Vacuum Tubes Count" (Lampy Schitayut), Radio No 12, pp 24-27, Dec 1953

Translation - F-TS-6357/V - D 178255, 22/3/55

"Vacuum Tubes Count" (Lampy Schitayut), Radio No 11, pp 28-30, Nov 53

Translation - F-TS 8356/V - D 178257, 22/3/55

COMMON ELEMENTS		PROPERTIES AND PROPERTIES INDEX	
<p><i>Breyer, T. C.</i> <i>Ca</i></p>		<p>Cuprous oxide rectifiers with a silver contact layer. V. F. Kenne and T. G. Uelido. <i>J. Tech. Phys. (U. S. S. R.)</i> 10, 1871-4 (1940).—The replacement of the Aquadag contact by a Ag film does not improve noticeably the volt-amp. characteristics, and does not change the temp. coeff. of d.-c. resistance, but does increase the stability, especially in a very humid atm. Plating of the Ag by the method of Rother, is preferred. Roksalana Gamow</p>	
<p>ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>		<p>1271111 Doc QM7 111</p>	

L 00374-66

ACCESSION NR: AR5013965

for recording special instructions and the remaining digits are divided between three addresses. The unit is equipped with four memory systems: 1) a magnetic operating memory, capacity 512 terms, rotation period 6 msec; 2) an intermediate memory on a magnetic drum, capacity 1024 terms, average rotation period 10 msec; 3) permanent memory on a magnetic drum, capable of data readout only, capacity 2048 terms, average rotation period 10 msec; 4) magnetic tape with a capacity of 100,000 terms. The computer operates on a frequency of 25 kc, power consumption is 3 kw, output rate 20 terms/sec. A total of 39 commands can be performed; the unit operates at an average speed of 1500 operations per second. The unit employs semiconductors (4000 triodes), an integrator in the form of a trigger register with a continuous carry and without provision for shifts and a data input system either from a manual keyboard or via a tape reading photoinput system. The unit occupies 50 m². Bibl. with 7 titles, 1 illustration. N. S.

SUB CODE: DP

ENCL: 00

Card 2/2

L 4550-66 EWT(d)/T/EWP(1) IJP(c) BB/GG

ACC NR: AP5026719

SOURCE CODE: UR/0141/65/008/005/1030/1035

AUTHOR: Breydo, M. D.; Lobashov, N. I.

ORG: Scientific Research Physicotechnical Institute at Gorky University
(Nauchno-issledovatel'skiy fiziko-tehnicheskii institut pri Gor'kovskom universi-
tete)

TITLE: Digital computer experiments on the classification of visual images by
the generalized pattern method

SOURCE: IVUZ. Radiofizika, v. 8, no. 5, 1965, 1030-1035

TOPIC TAGS: algorithm, computer coding, computer programming, character recogni-
tion

ABSTRACT: The article describes the results of an investigation of a recognition
algorithm discussed in another paper (M. D. Breydo, Izv. vyssh. uch. zav.--Radio-
fizika v. 8, 1036, 1965), based on the compactness hypothesis (E. M. Braverman,
Avtomatika i telemekhanika v. 23, 349, 1962). The experimental material used are
handwritten Arabic numbers and letters of the cyrillic alphabet. Each letter is
projected on a grid with $10 \times 6 = 60$ cells and is suitably coded. The major task
of the computer was to establish a generalized pattern for a given letter after

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UDC: 62-50

L 4550-66

ACC NR: AP5026719

being fed a certain number (18) of different images of this letter. This generalized pattern was to serve as a means of determining whether some other image represents this letter or not. An accuracy of up to 91.9% is claimed for the recognition of some characters, although the computer was not successful in distinguishing between letters with very similar outlines. The coding and programming are briefly discussed. Orig. art. has: 3 figures and 2 tables. [02]

SUB CODE: DP/ SUBM DATE: 01Feb65/ ORIG REF: 004/ - ATD PRESS: 4136

Card 2/2

USSR/Geophysics - Ion adsorption by drops

FD-2893

Card 1/1 Pub. 45 - 4/11

Author : Breydo, Ts. G.

Title : ~~Investigation of the mechanism governing the adsorption of ions by~~
drops of water

Periodical : Izv. AN SSSR, Ser. geofiz., Nov-Dec 1955, 521-528

Abstract : The author presents the results of an experimental study of the dependence of charge acquired by a drop falling in a stream of ionized air upon the concentration and coefficients of diffusion of ions of both signs in the air, upon the velocity of motion of the drop, and upon the radius of the drop. On the basis of the results obtained the author is led to the conclusion that in weak electric fields the principal mechanism for charging of drops is the diffusion of ions. He thanks P. N. Tverskiy for his guidance. Five references: e.g. N. A. Fuks, "Quantity of charges on particles of atmospheric aerocolloids," Izv. AN SSSR, Ser. geogr. i geofiz., No 4, 1947.

Institution : -

Submitted : February 11, 1954

"APPROVED FOR RELEASE: 06/09/2000

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APPROVED FOR RELEASE: 06/09/2000

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PC-1/Pr-1

RM/WW/DJ

ENP(j)/EPF(c)/ENT(1)/ENT(m)/BDS

AFTTC/ASD/APGC/SSD

ACCESSION NR: AP3004535

S/0065/63/000/008/0057/0061

AUTHORS: Kaplan, S. Z.; Bazin, A. P.; Breydo, Ts. G.; Spirina, I. F. 76

TITLE: Effect of bremsstrahlung from a betatron with 25 mev energy and ultra-violet rays on mineral oils.

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 8, 1963, 57-61

TOPIC TAGS: bremsstrahlung, betatron, ultraviolet ray, lubricating oil, mineral oil, betatron irradiation.

ABSTRACT: Authors studied some physico-chemical processes which take place in mineral lubricating and electric insulating oils under the influence of electromagnetic radiation. The average effective radiation of the betatron was 9.5 mev. The effect of retardation of the betatron irradiation on turbine lubricants which were concentrated with polymers was studied by applying a maximum energy of 25 mev of a dose of 10^5 - 10^6 and ultraviolet radiation. It was found that when the irradiation is performed in a closed system with an inadequate supply of air, the oxidizing numbers of concentrated oils were decreased. Their viscosity did not change however. The lowering of intensity in the absorption bands corresponding to the vibrations of the groups-CH₂ and -CH₃ were observed in the infrared

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ACCESSION NR: AP3004535

spectra of the oil irradiated by the betatron. However, after irradiation with the ultraviolet light, the intensity of these bands increased. When the irradiation is performed in an open vessel with a transformer oil using a dose of 10^6 r, the oxidizing number of the oil increases and the electric insulating properties are decreased. As a result of the irradiation, Beta-active isotopes Fe^{55} and Na^{24} appear in the oil. Orig. art. has: 3 tables and 5 figures.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 27Aug63

ENCL: 00

SUB CODE: PH, CH

NO REF SOV: 012

OTHER: 003

Card 2/2

KAPLAN, S.Z.; BAZIN, A.P.; BREYDO, TS.G.; SPIRINA, I.F.

Effect of the braking radiation of betatron with an energy of
25 Mev and of ultraviolet rays on mineral oils. Khim.i
tekh.topl.i masel 8 no.8:57-61 Ag '63. (MIRA 16:9)
(Mineral oils) (Radiation)

PLATSMAN, L.G.; BREYDO, V.A.

Hemodynamic and electrocardiographic changes under the influence of mud treatments at high mountain altitudes. Vop. kur., fizioter. i lech. fiz. kul't. 25 no. 6:499-501 N-D '60. (MIRA 14:2)

1. Iz kliniki fakul'tetskoy terapii Kirgizskogo meditsinskogo instituta (zav. - prof. M.Ye. Vol'skiy) I Issyk-Kul'skogo sanatoriya "Tanga" (nach. M.V. Mikhaylenko).
(BLOOD) (ELECTROCARDIOGRAPHY) (BATHS, MOOR AND MUD)

BREYDO, V.A., kand.med.nauk

Second conference on research and practice of the health resort
specialists and physical therapists of Kirghizia. Vop. kur.,
fizioter. i lech. fiz. kul't. 25 no. 6:561-563 N-D '60.

(MIRA 14:2)

(KIRGHIZISTAN--PHYSICAL THERAPY)

BREYDO, V.A.

Effect of fangothrapy on the cardiovascular system in high-mountain altitudes, according to late results. Vop. kur., fizioter. i lech. fiz. kul't. 28 no.4:358-359 J1-Ag '63.

(MIRA 17:9)

1. Iz Issyk-Kul'skogo voyennogo sanatoriya Turkestan'skogo voyennogo okruga (nachal'nik P.G. Krivenkov, nauchnyy rukovoditel' - zasluzhennyy deyatel' nauki prof. M.Ye. Vol'skiy (deceased)).

BREYDO, V.S., podpolkovnik med.sluzby

Effect of the altitude of the Issyk-Kul sanatorium on the
cardiovascular system. Voen.med.zhur. no.12:79 D'57 (MIRA 11:5)
(ALTITUDE, INFLUENCE OF CARDIOVASCULAR SYSTEM)

Chemical Technology. Artificial and Synthetic H
Fibers.

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 75868.

Author : ~~Breydygans - Niroslavskaya.~~

Inst : Not given.

Title : Expediency of Manufacturing Acetate Fibers in
Poland.

Orig Pub: Techn. wlokienn., 1958, 6, No 1, 5-7.

Abstract: On the basis of an analysis of the technology
and economy of the manufacture and the proper-
ties of acetate fibers, the authors urge that
the development of acetate fibers be brought
up to five million tons per year.

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75

BREYER, A.

Tasks of the Institute for Studies and Planning of the Industry for Building
Materials can be fulfilled with honor. p. 2

Newest and most progressive methods in every project. p. 3

CONSTRUCTORUL, Bucuresti, Vol 8, No. 319, Feb, 1956

SO: East European Accessions List (EEAL) Library of Congress, Vol 5, No. 7, July, 1956

BREYEV, A., dotsent, kand.tekhn.nauk

"Use of plastic materials in shipbuilding and ship repairs" by
Kh.M.Iskanderov, S.E.Perekrestov. Reviewed by A.Breev. Mor. flot
23 no.4:43-44 Ap '63. (MIRA 16:5)
(Shipbuilding materials) (Plastics) (Iskanderov, Kh.M.)
(Perekrestov, S.E.)

BREYEV, A.

Useful book on the glueing of reinforced plastics. Plast. massy
no.8:75-76 '64.
(MIRA 17:12)

BREYEV, A.; LAPSHIN, V.V.; ROMANCHENKO, N.

Reviews. Plast. massy no.3:71-73 '65.

(MIRA 18:6)

KOROTKIN, Isaak Moiseyevich; BREYEV, A.M., nauchnyy red.; KAZAROV, Yu.S.,
red.; SHISHKOVA, L.M., tekhn.red.

[Battle damage of surface vessels] Boevye povrezhdeniia nadvodnykh
korablei. Leningrad, Gos.soiuznoe ind-vo sudostroit.promyshl.,
1960. 301 p. (MIRA 13:5)
(World War, 1939-1945--Naval operations)

BREYEV, A.M., kand.tekhn.nauk

Universal caisson-docks for repairs in floated ships. Sudostroenie
26 no.10:59-63 0'60. (MIRA 13:10)
(Ships--Maintenance and repair) (Docks)

BREYEV, A.M., kand.tekhn.nauk

"Plastic ship hulls" by V.V. Kushelev, I.A. Sokolov. Reviewed
by A.M. Breev. Sudostroenie 27 no.11:75 N '61. (MIRA 15:1)
(Hulls (Naval architecture))
(Plastics)
(Kushelev, V.V.) (Sokolov, I.A.)

BREYEV, A.M., kand.tekhn.nauk; SOKOLOV, B.F., inzh.; KRIVTSOV, Yu.V.,
kand.tekhn.nauk; PANFILOV, N.A., inzh.

"Ship design of plastic materials" by M.G.Avrukha. Reviewed
by A.M.Breev, P.B.Sokolov, IU.V.Krivtsov, N.A.Panfilov.
Sudostroenie 28 no.7:82-84 J1 '62. (MIRA 15:8)
(Shipbuilding) (Plastics) (Avrukha, M.G.)

SEMENOV-TYAN-SHANSKIY, Roman Veniaminovich; BREYEV, A.M., kand.
tekhn. nauk, retsenzent; LOVYAGIN, M.A., ~~inzh.~~, retsenzent;
KUSKOVA, A.I., red.; KOROVENKO, Yu.N., tekhn. red.

[Designing caisson docks] Proektirovanie kesson-dokov. Le-
ningrad, Sudpromgiz, 1963. 64 p. (MIRA 16:10)
(Gaissons) (Floating docks)

BREYEV, A.M.

Useful book on glass plastics (B.A.Kiselev, "Glass Plastics," State Scientific and Technical Publishing House of Chemical Literature, 1961). Plast.massy no.10:71-73 '63. (MIRA 16:10)

BREYEV, A.M., inzh.-kapitan 1-go ranga zapasa

Use of reinforced plastics in submarine building. Mor. sbor.
47 no.6:69-71 Je '64.

(MIRA 18:7)

BREYEV, B.

Changes in workers' professional composition. Biul.nauch.inform.:
trud i zar.plata 4 no.5:9-14 '61. (MIRA 14:5)
(Sverdlovsk--Machinery industry)

BREYEV, B.

Technological progress and the educational level of the working
class. Biul. nauch. inform.: trud i zar. plata 4 no.10:32-36
'61. (MIRA 14:10)

(Technology)
(Labor and laboring classes--Education)

BREYEV, B. D.

USSR/Leather Manufactures
Labor 5400.

4414.0500

Sep 1947

"Utilizing Reserve Capacity for Output of Equipment," I. I. Kapustin,
Candidate in Tech Sci, B. D. Breyev, Engr, 1½ pp

"Legkaya Prom" Vol VII, No 9

Latent and actual productive capacities of workshops No 3 and 4 of
shoe factory "Burevestnik" are discussed as examples of discrepancy
that exists between workshops. If unused capacity were fully
exploited, production figures would add considerably to national
economy.

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BREYEV, B.D.

AUTHOR: Breyev, B.D.

28-5-10/30

TITLE: Technical Progress in Leather-Footwear Industry (Tekhnicheskiy progress v kozhevenno-obuvnoy promyshlennosti)

PERIODICAL: Standartizatsiya, 1957, # 5, p 43-46 (USSR)

ABSTRACT: The article presents a general review of progress in Soviet production of footwear since the Revolution.

The shoe factories are now mechanized to 60 % and 87 % of the handling operations are performed by conveyers. The overall output of shoe factories attained 314 million pairs in 1956. Glueing has nearly completely replaced the old sewing method for fastening the sole. Rubber soles are fastened mostly by semi-automatic hot vulcanization. The new method of making shoes without drawing-over and tightening by drawing ("bezobtyazhnyy metod") has eliminated complex machines, reduced the consumption of leather and increased work efficiency. It can be combined with the sewing and glueing method and with hot vulcanization.

The importance of standards in shoe industry is stressed and the existing GOCTs for the shoe industry are listed. The laboratory testing methods enable direct evaluation of the quality of shoes. TsNIKP has lately completed work for im-

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Technical Progress in Leather-Footwear Industry

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proving the methods of testing new materials. New methods of evaluating water permeability of shoe materials, sturdiness of leather substitutes and footwear fabrics have been developed. The standards for shoe materials still need amendment. The two basic standards for footwear are presently under revision. The article contains one photograph of the new machinery at the Leningrad shoe factory "Proletarskaya pobeda"

ASSOCIATION: Central Scientific Research Institute for Leather and Footwear (Tsentral'nyy nauchno-issledovatel'skiy institut kozhevenno-obuvnoy promyshlennosti)

AVAILABLE: Library of Congress

Card 2/2

BREYEV, B.D.

Expand the use of scientific and technical achievements in developing
the leather and shoe industry. Leg.prom. 18 no.7:5-9 Л '58.
(MIRA 11:9)

1. Direktor Tsentral'nogo nauchno-issledovatel'skogo instituta
kozhevenno-obuvnoy promyshlennosti.
(Leather industry) (Shoe manufacture)

BRUYEV BI

BRUYEV, B.I.; METELKIN, A.D.

Research being made by the Scientific Research Institute of
Czechoslovak leather and footwear industries. Leg.prom.17
no.9:22 S '57. (MIRA 10:12)
(Czechoslovakia--Leather industry)

BREYEV, B.D.

Basic technical trends and scientific research work in the leather
and shoe industry. Kozh.-obuv.prom. no.1:11-15 Ja '59.
(MIRA 12:6)

1. Direktor Tsentral'nogo nauchno-issledovatel'skogo instituta
kozhevenno-obuvnoy promyshlennosti.
(Leather research) (Shoe industry)

BRUYEV, B.D.

Combine creative ingenuities for solving the technical problems of the leather and shoe industry. Izv.vys.ucheb.zav.; tekhnolog.prom. no.1:11-16 '59. (MIRA 12:6)

1. Direktor Tsentral'nogo nauchno-issledovatel'skogo instituta kozhevenno-obuvnoy promyshlennosti.
(Leather industry) (Shoe industry)

BREYEV, B.D.; KAPUSTIN, I.I.

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kozhevennoy promyshlennosti (for Breyev).
(Hungary--Leather industry)

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Retraining the labor force under the conditions of comprehensive
mechanization and automation of production processes. Trudy Ural.
politekh. inst. no.120:42-49 '61. (MIRA 16:6)
(Sverdlovsk Province—Machinery industry--Technological innovations)
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(Leather industry) (Tanning materials)

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- BREYEV, B. D., Central Scientific Research Institute of Leather Footwear Industry, Moscow - "New trends of technologies, new factory equipments in the Soviet Union" Section 2-c
- KOMISSAROVA, N. B., Administrative Department of the Leather Trades' Industries, Moscow - "Experiences of abrasion resistance of sole leathers" Section 1-d
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- RODIONOV, A. M., Research Institute for the Fur Industry, Moscow - (Subject to be given later) Section 3-c
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- ZUBIN, V. P., Prof. Dr., Moscow Technological Institute of Light Industry, Moscow - "Principles of construction of rational last forms" Section 2-c
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manufacture. Kosh.-obuv.prom. 5 no.1:17-24 Ja '63.

(MIRA 16:2)

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V.I., inzh., retsenzent; TOLSTOV, M.A., inzh., red.; MODEL',
B.I., tekhn.red.

[Automatic and semiautomatic grinding machines] Shlifoval'nye
avtomaty i poluavtomaty. Moskva, Gos.nauchno-tekhn.izd-vo
mashinostroit.lit-ry, 1959. 292 p.
(Grinding machines) (MIRA 13:3)

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Stanki i Instrument, 14, no.6, 1943

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"Compensation for Play in Machine Tools for Grinding Threads," Stanki i Instrument,
17, nos. 7-8, 1946

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SO: VECHERNAYA MOSKVA, JANUARY-DECEMBER 1952

1. BREYEV, B. T.
2. USSR (600)
4. Grinding and Polishing
7. Post-war development of machining by means of abrasive tools. Stan. instr.
23 no.11 1952.
9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

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7. Development of Machining With An Abrasive Tool in the Post-War Period,
Machine Tools and Instruments No. 1, Jan 1953
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Contained in Soviet Publications. ATIC. Restricted.

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Grinding and Polishing

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BREYEV, B.T.

AID P - 4777

Subject : USSR/Engineering

Card 1/1 Pub. 103 - 4/24

Author : Breyev, B. T.

Title : Heat deformations in machine-tools and measures for their elimination.

Periodical : Stan. 1. instr., 3, 14-15, Mr 1956

Abstract : Heat emanating during the operation of a metal-cutting machine affects its component parts and reduces the rigidity of the machine, diminishing its efficiency as a whole and lowering the quality of the output. One of the effective counter measures is the application of a compensator. The author describes the heat compensator installed in the 3B180-model centerless grinding machine. Two drawings.

Institution : None

Submitted : No date

BREYEV, B.T.

AID P - 5142

Subject : USSR/Engineering

Card 1/1 Pub. 103 - 1/18

Author : Breyev, B. T.

Title : Problems of automation in grinding

Periodical : Stan. 1 instr., 5, 1-7, My 1956

Abstract : The author discusses automatic hydraulic, electric and mechanical arrangements in various grinding machines, the problem of automatic restoration of cutting ability of grinding tools in the machines, the automatic loading of specimens to be machined and the unloading of finished products. Nine drawings and 1 photo.

Institution : None

Submitted : No date

~~BRUYEV, B. A.~~

Securing the cylindricality in grinding long shaft journals.
Stan.1 instr. 28 no.9:18-21 S '57. (MIRA 10:10)
(Grinding and polishing) (Shafts and shafting)

BREYEV, K. A.

Behavior of blood sucking diptera and of gadflies during their attack upon the reindeer and the reindeer's reaction to such attacks.

2. Congregation of reindeer in herds as a defense factor against the attacks of blood suckers and gadflies. Paraz. sbor., no. 13, 1951

SO: MLRA. April 1952.

BREYEV, K.A.; KARAZEYeva, A.F.

Material on the biology of the warble fly *Oedemagana tarandi* L. Paraz.
sbor. 14:95-102 '52. (MLRA 6:6)
(Warble flies) (Parasites--Reindeer)

BREYEV, K.A.; KARAZHYEVA, Z.F.

Materials on the biology of the deer bot *Oedemagena tarandi* L.
of the reindeer. Paras.sbor. 15:410-424 '53. (MLRA 7:5)
(Parasites--Reindeer) (Warble flies)

BREYEV, K. A.

USSR/Medicine - Veterinary

FD-473

Card 1/1 : Pub. 137 - 14/24

Author : Breyev, K. A., Cand Biol Sci and Savel'yev, D. V., Cand Agr Sci

Title : ~~Control of cutaneous gadflies of reindeer~~
Control of cutaneous gadflies of reindeer

Periodical : Veterinariya, 7, 35-37, Jul 54

Abstract : The Institute has developed a method of exterminating the female cutaneous gadfly during flight and oviposition. Composite emulsion consisting of 20% mineral oil concentrations of DDT and hexachlorocyclohexane (GKhTsG) diluted with water in a ratio of 1 to 3 has been used to spray deer. Tendency of deer to crowd together when attacked by gadflies makes it easy to spray them with this emulsion. The apparatus used for spraying consists of a barrel with a plunger pump (OBP) and a sprayer of the VNIOT type. One table. Three illustrations.

Institution : Scientific-Research Institute of Polar Agriculture, Animal Husbandry, and Hunting and Fishing

Submitted :

BREYEV, Konstantin Aleksandrovich

[Control of warble flies in Western Europe and the U.S.A.]
Bor'ba s kozhnymi ovodami v Zapadnoi Evrope i SSHA. Leningrad.
1956. 29 p. (MLRA 10:5)
(Warble flies)

BREYEV, K.A.

Attacks of the warble flies *Oedemagena tarandi* L. and *Cephenemyia*
trempe L. on the reindeer and factors for controlling them. Parazit.
sber.16:155-183 '56. (MLRA 9:7)

1. Zoologicheskiy institut Akademii nauk SSSR.
(Bet flies) (Reindeer--Diseases and pests)

BRZYEV, K.A., kandidat biologicheskikh nauk.

Control of warble flies of cattle in Western Europe and the
United States. Veterinariia 33 no.2:78-83 F '56. (MLBA 9:5)

1. Zoologicheskii institut Akademii nauk SSSR,
(WARBLE FLIES)

USSR/Zooparasitology. Ticks and Insects--Vectors of G
Causative Agents of Diseases

Abs Jour : Ref Zhur-Biol., No 13, 1958, 57946

Author : Breyev K. A.

Inst : Not given

Title : Protection of Humans and Animals from Sangui-
vorous Insects (Information on the Control
of Insects)

Orig Pub : Vestn. AN SSSR, 1957, No 8, 112-113

Abstract : No abstract

Card 1/1

USSR
Zoopharmacology. Acarids and Insects as Vectors
of Disease. Insects
Entomol., No. 4 1959, No. 15050
Breyer, K. A.; Karazeyeva, Z. P.
on the Biology of the Reindeer Fly Oedema-
tarand; L. III. Observations upon pupae and
Reindeer Flies
Entomol. sb., 1957, 17, 199-228
nts on the survival of pupae on different
nit to recommend the pasturing of rein-
the period of the massive falling out
low marshy places, and to provide out-
sections with firm ground without
er. Out of 1,580 reindeer flies
e, only 0.8% males were found.
a case of twofold copulation

COUNTRY : USSR G
 CATEGORY : Zooparasitology. Acarids and Insects as Vectors
 of Disease: Insects
 AHS. JOUR. : RZhBiol., No. 4 1959, No. 15050
 AUTHOR : Breyev, K. A.; Karazoyeva, Z. F.
 INST. :
 TITLE : Data on the Biology of the Reindeer Fly Oedema-
 gena tarandi L: III. Observations upon Pupae and
 Adult Reindeer Flies
 ORIG. PUB. : Parazitol. sb., 1957, 17, 199-228
 ABSTRACT : Experiments on the survival of pupae on different
 soils permit to recommend the pasturing of rein-
 deer (R) in the period of the massive falling out
 of larvae in low marshy places, and to provide
 rest for R in sections with firm ground without
 vegetative cover. Out of 1,580 reindeer flies
 caught in nature, only 0.8% males were found.
 In the laboratory a case of twofold copulation

ED:

1/4

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COUNTRY	:	
CATEGORY	:	G
ABS. JOUR.	:	RZhBiol., No. 4 1959, No. 15050
AUTHOR	:	
INST.	:	
TITLE	:	
ORIG. PUB.	:	
ABSTRACT cont'd	:	<p>of one pair of reindeer flies was observed. Flight in European tundras occurs from the end of June or the beginning of July until the beginning of September. The flight may take place at the temperature of not less than 7.4° in sunny weather and not less than 13° in cloudy weather. In sunny weather, the attack of females (F) causes great unrest of R; at the same time, F succeed in laying only an insignificant part of their eggs. In cloudy weather, when R lies down</p>
CARD:		2/4

COUNTRY	:	
CATEGORY	:	
SS. JOUR.	:	RZhBiol., No. 4 1959, No. 15050
AUTHOR	:	
INST.	:	
TITLE	:	
ORIG. PUB.	:	
ABSTRACT cont'd	:	the flies lay eggs while crawling towards R across the ground and do not cause any agitation in it; in this case a great portion of eggs is laid. One of the causes of the greater infestation of weak R and young R by larvae is explained by the fact that during attack by the females of the R fly they get tired more rapidly and lie down. The dummy of R, even if primitive, attracts
CARD:		3/4

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~~BRUYEV, Konstantin Aleksandrovich~~; SAVEL'YEV, Dmitriy Vasil'yevich;
PAVLOVSKIY, Ye.N., akademik, glavnyy red.; GRUNIN, K.Ya., red.;
SERGEYEVA, G.I., red.izd-va; ARONS, R.A., tekhn.red.

[Reindeer warble fly and its control] Kozhnyi ovod severnogo
olenia i bor'ba s nim. Moskva, Izd-vo Akad. nauk SSSR, 1958.
100 p. (Nauchno-populiarnaya seriya, no.6) (MIRA 11:5)

1. Prezident Vsesoyuznogo entomologicheskogo obshchestva, (for
Pavlovskiy)
(Reindeer--Diseases and pests) (Warble flies)

BREYEV, K.A.

Use of ultraviolet-light traps to determine the specific composition and density of mosquito populations [with summary in English]. Paraz. sbor. 18:219-238 '58. (MIRA 12:3)

1. Zoologicheskii institut AN SSSR.
(Mosquitoes) (Insect traps) (Ultraviolet rays)

USOVA, Zinaida Vasil'yevna; ~~BEFTEV, K.A.~~ kand. biolog. nauk, red.; STREL-
KOV, A.A., red. izd-va; ZENDEL', M.Ye., tekhn. red.

[Black flies (Diptera, Simuliidae) of Karelia and Murmansk Province]
Fauna moshek Karelii i Murmanskoi oblasti (Diptera, Simuliidae).
Moskva, Izd-vo Akad. nauk SSSR, 1961. 286 p. (MIRA 14:12)
(Karelia--Black flies) (Murmansk Province--Black flies)

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Biological principles of warble fly control. Ent. oboz. 40
no.1:76-97 '61. (MIRA 14:4)

1. Zoologicheskii institut AN SSSR, Leningrad.
(Warble flies)

BREYEV, K.A.

Effect of different sources of light on the abundance and species
of mosquitoes collected with light traps. Vop. ekol. 4:92-93 '62.
(MIRA 15:11)

1. Zoologicheskii institut AN SSSR, Leningrad.
(Mosquitoes) (Light--Physiological effect) (Insect traps)

BREYEV, K.A.

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of bloodsucking mosquitoes (Diptera, Culicidae) collected by light
traps. Ent. oboz. 42 no.2:280-303 '63. (MIRA 16:8)

1. Zoologicheskii institut AN SSSR, Leningrad.
(Astrakhan Preserve--Mosquitoes) (Insect traps)

BREYEV, K. A.

"Metody bor'by s krovososushchimi nasekomymi i ovodami v olenevodcheskikh khozyaystvakh Severa SSSR."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences,
Moscow, 3-10 Aug. 64.

PREYEV, K.A.; DYADECHKO, V.N.

Artificial infestation of cattle with the eggs of the warble fly
Hypoderma bovis DeGeer. Zool. zhur. 43 no. 3:474-479 '64.
(MIRA 17:5)

1. Zoological Institute, Academy of Sciences of U.S.S.R.,
Leningrad and All-Union Research Institute of Veterinary Sanitary,
Ministry of Agriculture of U.S.S.R., Moscow.

BREYEV, K. A.

"On the way of migration of the first instar larvae of the warble-fly *Hypoderma bovis* DeGeer (Diptera. Hypidermatidae) in the host-organism."

report submitted for 1st Intl Cong, Parasitology, Rome, 21-26 Sep 64.

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1. Zoologicheskiy institut AN SSSR, Leningrad i Vsesoyuznyy nauchno-issledovatel'skiy institut veterinarnoy sanitarii Ministerstva sel'skogo khozyaystva SSSR, Moskva.

BREYEV, K.A.

Present methods of warble fly control and their future development.
Trudy Zool. inst. 35:308-318 '65. (MIRA 19:1)

1. Zoologicheskii institut AN SSSR.

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DLC: HE7.25

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

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[Problems in national economic planning] Voprosy narodnokhoziaistvennogo planirovaniia; sbornik statei. Redkollegiia; Itkina, A.S., Kozlov, L.A., Ozerov, V.K. Moskva, Mosk. gos. ekon. in-t, 1958. 226 p. (MIRA 14:8)

(Russia—Economic policy)

BREYEV, Mikhail Viktorovich; KALMYK, V.A., red.; PONOMAREVA, A.A.,
tekh.n.red.

[Law of planned and proportional development, and planning of
the national economy] Zakon planomernogo proporsional'nogo
razvitiia i planirovanie narodnogo khoziaistva. Moskva, Gos-
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82 p. Tables.

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The economic use and apportionment of working time. Sots. trad
6 no. 12-21-80 D 191. (MIRA 14:11)
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BREYEV, M.V., doktor ekon. nauk; SILIN, V.A.; BYCHEK, N.R., kand. ekon. nauk; GREBTSOV, G.I., kand. ekon. nauk; ITKINA, A.S., kand. ekon. nauk; KOKOREV, M.V., kand. ekon. nauk; KOMIN, A.N., kand. ekon. nauk; LIPSITS, V.B., kand. ekon. nauk; OZORNOV, A.K., kand. ekon. nauk; ORLOV, N.M., st. prepod.; SEREDNITSKAYA, Ye.K., kand. ekon. nauk; SMEKHOV, B.M., doktor ekon. nauk; FEL'D, S.D., kand. ekon. nauk; LISOV, V.Ye., red.; TARASOVA, T.K., mlad. red.; GERASIMOVA, Ye.S., tekhn. red.

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narodnogo khoziaistva SSSR. Moskva, Ekonomizdat, 1963. 621 p. -
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1. Moscow. Institut narodnogo khozyaystva.
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BREYEV, V.A.

Eliminate defects in accounting and accounts. Gidroliz. 1 lesokhim. prom. 8 no.6:25-26 '55. (MLRA 9:1)

1.Glavnyy bukhgalter Glavleskhima.
(Wood-using industries--Accounting)